

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S1    | 3375 | (die adj pad) and (via hole opening)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/10/30 21:31 |
| S2    | 1675 | S1 and (solder soldered soldering)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/10/30 21:32 |
| S3    | 387  | S2 and (pcb pwb)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/10/30 21:32 |
| S4    | 2    | ("6465743").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2004/10/30 21:43 |
| S5    | 1746 | (174/260).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2004/10/05 16:59 |
| S6    | 378  | solder adj dam  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/10/05 17:09 |
| S7    | 2075 | (die adj pad) and solder  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/10/30 21:31 |
| S8    | 2034 | ((die adj pad) and solder) not (solder adj dam) not ((174/260).CCLS.)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/10/05 17:12 |
| S9    | 1210 | ((((die adj pad) and solder) not (solder adj dam) not ((174/260).CCLS.)) and @py>"2000" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/10/05 17:30 |

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| S10 | 824  | ((((die adj pad) and solder) not (solder adj dam) not ((174/260).CCLS.)) not (((die adj pad) and solder) not (solder adj dam) not ((174/260).CCLS.)) and @py>"2000") | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2004/10/05 17:30 |
| S11 | 1535 | (174/255).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/27 17:52 |
| S12 | 1864 | (174/260).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/27 17:53 |
| S13 | 290  | S11 and S12  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/27 18:03 |
| S14 | 1308 | (361/777-779).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/27 18:03 |
| S15 | 1023 | S14 not (S11 S12)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/27 18:03 |
| S16 | 10   | ("4513355"   "5173844"   "5521332"   "5646828"   "5689091"   "5847935"   "5939214"   "6014318"   "6088901"   "6160311").PN. OR ("6670557").URPN.                     | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/29 12:47 |
| S17 | 7    | ("4821007"   "5153385"   "5355283"   "5433822"   "5467253"   "5635671").PN. OR ("6465743").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/29 12:54 |
| S18 | 47   | anti-pad (anti adj pad)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 12:55 |
| S19 | 3036 | (pcw pwb (printed adj circuit) ((circuit wiring) adj board)) and trench  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 12:56 |

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| S20 | 2577  | S19 and (component chip IC)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 12:57 |
| S21 | 0     | S20 and @py<"200"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 12:58 |
| S22 | 418   | S20 and @py<"2000"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 13:32 |
| S23 | 26    | ("4258078"   "4259367"  <br>"4403410"   "4418264"  <br>"4572941"   "4615765"  <br>"4630355"   "4704304"  <br>"4714684"   "4756927"  <br>"4877481"   "4880959"  <br>"4882200"   "4906491"  <br>"4908938"   "4919971"  <br>"5064681"   "5091218"  <br>"5130172"   "5145714"  <br>"5153408"   "5182230"  <br>"5193732").PN. OR ("5384953").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/29 13:05 |
| S24 | 0     | ("goldwithcopperwithnickel").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/29 13:05 |
| S25 | 24474 | gold with copper with nickel  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 13:05 |
| S26 | 298   | (gold adj layer) same (copper adj<br>layer) same (nickel adj layer)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 13:06 |
| S27 | 28    | ("4293587"   "4467400"  <br>"4471483"   "4484215"  <br>"4486705"   "4489397"  <br>"4493055"   "4539068"  <br>"4643804"   "4668365"  <br>"4675717"   "4681653"  <br>"4732865"   "4910169"  <br>"4923825"   "4937653"  <br>"4988423").PN. OR ("5274270").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/29 13:21 |

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| S28 | 697  | (361/783).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/29 13:31 |
| S29 | 6269 | (257/787-796).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/29 13:32 |
| S30 | 3501 | (257/787).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/29 13:32 |
| S31 | 4621 | S29 and @py<"2000"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 13:33 |
| S32 | 85   | S29 and trench  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 13:35 |
| S33 | 1561 | S29 and hole  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 13:35 |
| S34 | 188  | S29 and slot  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/29 13:35 |
| S35 | 26   | ("4258078"   "4259367"  <br>"4403410"   "4418264"  <br>"4572941"   "4615765"  <br>"4630355"   "4704304"  <br>"4714684"   "4756927"  <br>"4877481"   "4880959"  <br>"4882200"   "4906491"  <br>"4908938"   "4919971"  <br>"5064681"   "5091218"  <br>"5130172"   "5145714"  <br>"5153408"   "5182230"  <br>"5193732").PN. OR ("5384953").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/04/29 13:42 |

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| S36 | 434 | (361/780,794).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/04/29 13:43 |
| S37 | 74  | S36 and (trench slit slot moat)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2005/04/29 13:43 |
| S38 | 16  | ("5057804"   "5214571"  <br>"5680080").PN. OR ("5828555").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2005/04/29 13:45 |
| S39 | 18  | ("5021865"   "5262674"  <br>"5756380"   "5909054"  <br>"5973337"   "6034422"  <br>"6229200"   "6392294"  <br>"6396135"   "6433277"  <br>"6462418"   "6469393"  <br>"6479901"   "6538313"  <br>"6538319"   "6593643"  <br>"6617695"   "6627981").PN. OR<br>("6831372").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2005/04/29 13:50 |
| S40 | 7   | ((("4793543") or ("5291375") or<br>("5872399"))).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/04/29 15:00 |
| S41 | 2   | ("5383095").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/12/08 17:51 |
| S42 | 2   | ("6670557").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/12/08 17:51 |
| S43 | 10  | ("4513355"   "5173844"  <br>"5521332"   "5646828"  <br>"5689091"   "5847935"  <br>"5939214"   "6014318"  <br>"6088901"   "6160311").PN. OR<br>("6670557").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2005/12/08 17:51 |



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| S44 | 29   | ("4293587"   "4467400"  <br>"4471483"   "4484215"  <br>"4486705"   "4489397"  <br>"4493055"   "4539068"  <br>"4643804"   "4668365"  <br>"4675717"   "4681653"  <br>"4732865"   "4910169"  <br>"4923825"   "4937653"  <br>"4988423").PN. OR ("5274270").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2005/12/08 17:53 |
| S45 | 10   | ("4513355"   "5173844"  <br>"5521332"   "5646828"  <br>"5689091"   "5847935"  <br>"5939214"   "6014318"  <br>"6088901"   "6160311").PN. OR<br>("6670557").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2005/12/09 07:39 |
| S46 | 9214 | die adj pad  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/09 07:39 |
| S47 | 207  | S46 and depression   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/09 07:43 |
| S48 | 468  | S46 and slots  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/09 07:43 |
| S49 | 4    | ("20030057545"   "20040004281"<br>  "6657296").PN. OR ("6753600").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2005/12/09 07:49 |
| S50 | 13   | ("20030160320"   "20040119158"<br>  "4938280"   "5796165"  <br>"5856911"   "5989941"  <br>"6011694"   "6046499"  <br>"6219238"   "6359341"  <br>"6552428"   "6657296"  <br>"6753600").PN. OR ("6847111").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2005/12/09 07:52 |
| S51 | 2    | ("5596171").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/12/09 08:31 |

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| S52 | 2  | ("0195424").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/12/09 08:31 |
| S53 | 20 | "195424"        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/09 08:32 |
| S54 | 1  | wo01/95424      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/09 08:33 |
| S55 | 0  | 01/95424        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/09 08:33 |
| S56 | 0  | 1/95424         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/09 08:33 |